Docket No.

245259US0DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Shigeru KAWAHARA, et al.

SERIAL NO: 10/706,083

GAU:

1621

FILED:

November 13, 2003

EXAMINER: Puttlitz, K.J.

FOR:

NOVEL INTERMEDIATE FOR SWEETENER WITH HIGH SWEETNESS AND PROCESS FOR PRODUCING

THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313 RECEIVED

Applicant(s) wish to disclose the following information.

OCT 0 4 2004

OFFICE OF PETITIONS

REFERENCES

	The applicant(s) wish to make of record the references cited on the attached Supplementary European Search
_	Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as
	are either statements of relevancy or any readily available English translations of pertinent portions of any non-
	English language references.

☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be
related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies
of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the
attached PTO form 1449.

A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon

Vincent K. Shier, Ph.D.

Registration No. 50,552

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

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1		OTHER R	EFERENCES ((Including Autho	or, Title, Date, Pe	rtinent Pages, e	etc.)		
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	AX								
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Europäisches Patentamt

Zweigstelle in Den Haag Recherchenabteilung European Patent Office

Branch of The Hague Search division Office européen des brevets

Département à La Haye Division de la recherche

-	Nicholls, Kathryn Mewburn Ellis LLP	Margaret
	York House	
	23 Kingsway	
	London WC2B 6HP	
	GRANDE BRETAGNE	

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MEWBURN ELLIS LLP

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Anmelder/Applicant/Dentandeur/Patentinhaber/Proprietor/Titulaire		-

COMMUNICATION

The Europe	ean Patent Office herewith	transmits		
	the European search re	port		
	the declaration under R	ule 45 EPC		
	the partial European se	arch report under Rule 45 EPC		
I		pean search report concerning the entioned European patent applications.		cation under Article 157(2) EPC ocuments cited in the search report are
The tollow	ng specifications given by	the applicant have been approve	ed by the Search Divi	sion:
	Abstract	☐ Title	4	Figure
□	The abstract was modifie	ed by the Search Division and the	definitive text is alta	ched to this communication.
		be published with the abstract, sine indicated by the applicant.	nce the Search Divisi	on considers that it better characterises
	Figure:			
Þ	Additional copy(copies)	of the documents cited in the Eur	opean search report.	Weches Patentamy

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507 0	2.93	 	



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 97 4890

	DOCUMENTS CONSI	DERED TO BE RELEVANT		,
Category	Citation of document with of relevant pa	Indication, where appropriate, ssages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCI,7)
Y,D	THE SOLVOLYSIS OF GEM-DIMETHYL-SUBST P-BROMOBENZENESULF	ITUTED 4-ARYL-1-ALKYL ONATES" CHEMISTRY, AMERICAN EASTON, US, 72, pages 825-836, 1, lines 12-26 *	1-19	C07K5/06 C07C45/41 C07C47/277 C07C51/367 C07C303/30
	US 5 480 668 A (NO 2 January 1996 (19 * column 6, lines		1-19	<i>j</i>
	OF CARBOXYLIC ACID ALDEHYDESCATALYZED IN THE PRESENCE OF CHEMISTRY LETTERS,	BY PALLADIUM COMPLEXES PIVALIC ANHYDRIDE" CHEMICAL SOCIETY OF no. 11, 1998, pages 9904	1-13	TECHNICAL FIELDS SEARCHED (IM.CI.7) CO7K CO7C
	2-BENZOYLBENZOIC AC JOURNAL OF AGRICULT CHEMISTRY, AMERICAN WASHINGTON, US,	RELATIONSHIPS OF SWEET CID DERIVATIVES" FURAL AND FOOD N CHEMICAL SOCIETY. POO0655884 As 1-2 *	1-13	
T	he supplementary search repo et of claims valid and available	rt has been based on the last at the start of the search.	9	
!	Place of search	Date of completion of the search	' 	Examiner
	luni ch	18 August 2004	Kie	rnan, A
X : particu Y : particu docum A : techno O : non-w	TEGORY OF CITED DOCUMENTS plarty relevant if laken alone ularty relevant if combined with anoi lent of the same category logical background written disclosure ediate document	E : earlier patent doc after the liting dat her D : document cited in L : document cited fo	rument, but public e the application or other reasons	shed on, or



SUPPLEMENTARY **EUROPEAN SEARCH REPORT**

Application Number EP 00 97 4890

Category	Citation of document with of relevant pas	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IM.CI.7)	
D,Y	GREENE T W ET AL: ORGANIC SYNTHESIS" PROTECTIVE GROUPS 1	"PROTECTIVE GROUPS IN IN ORGANIC SYNTHESIS, SONS, US, 1991, pages	1-19	
- 4				
				TECHNICAL FIELDS SEARCHED (Int.CI.7)
	The supplementary search repo set of claims valid and available	rt has been based on the last		
	set of claims valid and available Place of search	at the start of the search. Date of completion of the search		Examiner
	Munich	18 August 2004	Kie	rnan, A
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EP 00 97 4890

CLAIMS INCURRING FEES	
The present European patent application comprised at	the time of filing more than ten claims,
Only part of the claims have been paid within report has been drawn up for the first ten clair been paid, namely claim(s):	the prescribed time limit. The present European search ins and for those claims for which claims fees have
No claims fees have been paid within the pres been drawn up for the first ten claims.	scribed time limit. The present European search report has
LACK OF UNITY OF INVENTION	
The Search Division considers that the present Europe requirements of unity of invention and relates to severa	an patent application does not comply with the I inventions or groups of inventions, namely:
see sheet B	
All further search tees have been paid within to been drawn up for all claims.	ne fixed time limit. The present European search report has
As all searchable claims could be searched wi did not invite payment of any additional fee.	thout effort justifying an additional fee, the Search Division
Only part of the further search fees have been search report has been drawn up for those par inventions in respect of which search fees have	paid within the fixed time limit. The present European ts of the European patent application which relate to the been paid, namely claims:
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None of the further search fees have been paid report has been drawn up for those parts of the first mentioned in the claims, namely claims:	d within the fixed time limit. The present European search European patent application which relate to the invention
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LACK OF UNITY OF INVENTION SHEET B

Application Number EP 00 97 4890

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13,16-19

Sulfonyl-protected 3-hydroxy-4-methoxyphenyl-3-methylbutyl carboxylic acid, a process for its preparation and its use for the synthesis of N-'N-'3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl!L-alpha-as partyl!-L-phenylalanine 1-methyl ester

2. claims: 14,15

Benzene derivatives of formula (3)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 97 4890

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of Information.

18-08-2004

	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	5480668	A	02-01-1996	FR	2697844	A1	13-05-1994
		**		ΑT	138935	T -	15-06-1996
•				ΑU	664663	B2	23-11-199
				AU	5468194	A	08-06-1994
				BG	61609	B1	30-01-199
				BG	99299	A	29-09-199
				CA	2139233	A1	26-05-199
				CN	1090571	A ,B	10-08-199
				CZ	9403319	A3	18-10-199
				DE	69303032	D1 -	11-07-199
				DE	69303032	T2	02-10-199
				DK		T3	01-07-199
				EΕ	3194		15-06-199
				ΕP	0669935	A1	06-09-199
				ES	2091114	T3	16-10 - 199
				FI	945451	A	22-12-199
				WO	9411391	Al	26-05-199
				GR	3020164	T3	30-09-199
				HU	72192		28-03-199
				IL	107551	A	16-08-199
				JP	2818032	B2	30-10-199
				JP	8503206	Ţ	09-04-199
				KR	254297		01-05-200
				LT	1457		15-06-199
				MD	960256	A	31~03-199
				NO	945090	A	30-12-199
				NZ	257870	A	26-03-199
				PL	306841	A1	18-04-199
				RO	112621		28-11-199
				RU	2107071		20-03-199
				SK	158694		10-05-199
				ZA	9308430	A	13-06-199